50X1-HUM



SECRET

50X1-HUM

SECURITY INFORMATION

German Democratic Republic	
DATA ON EXPERIMENTS TO OBTAIN HIGH-TEMPERATURE CON	TE FROM BROWN COAL
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The difference between low-temperature coke and high-temperature brown-coal coke is that the former is formed at temperatures between 500 and 600 degrees, whereas the latter is formed at higher-than-normal coking temperatures, that is, between 900 and 1,200 degrees. Although the production of high-temperature brown-coal coke developed more rapidly in the countries which have black-coal coke deficiencies, the former is not an emergency or makeshift device. The result of 20 years of research, high-temperature brown-coal coke was developed chiefly in Germany, where the basic principles for its production were established before 1945. 50X1-HUM unsuccessful attempts to produce the coke, the laboratory experiments conducted by Dr. Rammler and Dr. Bilkenroth as to the proper gras50X1-HUM and maximum water content of the priquettes. The method developed by these two men was based on the principle of producing brown-coal briquettes without binding material, and of then transforming the briquettes into coke by indirect heating. At the beginning of 1951, at the August Bebel Black-Coal Coking Plant in Zwickau, Rammler and Bilkenroth succeeded, for the first time, in transforming a complete charge of 8 tons 50X1-HUM tree into useable brown-coal hard coke. The next step was the development of proper equipment for the coking process	
must be coupled with briquette factories, because process which requires that the briquettes be subjuncted production, and that they, therefore, can a by-product of the coke, a gas which can home-consumption purposes. The coke, as a gasific for the same purposes as black-coal cooke; moreover be used in lime-burning and in the production of scale coking installation has been under con October 1951. Scheduled to have a capacity of 650, stallation is in a location which has several hunder denosits.	the production method is a continuous lected to the coking process immediate mot be re-heated. 50X1-HUM be used for industrial as well as it sation and reduction agent, is useable in the former will arbide. 50X1-HUM: 1
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